Methoxychlor

Chemical Information
Methoxychlor is an organochlorine used as a general insecticide. It is a pale- yellow powder with a slightly fruity or musty odor. However, it is available in many forms, including powders, emulsifiable concentrates, granules, and an aerosol. Methoxychlor is similar in structure to dichlorodiphenyltrichloroethane (DDT), but it is less toxic.
CAS Number - 72-43-5
Alternate Names - 2,2-bis(p-methoxyphenyl)-1,1,1-trichloroethane
General Uses - This chemical is used to kill insects such as flies, mosquitoes, cockroaches, chiggers, etc. Methoxychlor also is used on agricultural crops, livestock, grain storage, home gardens, and pets. EPA has approved the use of methoxychlor as a pesticide and fumigant on more than 85 crops such as fruits, vegetables, forage crops, and shade trees. It may also be applied to large areas such as beaches, estuaries, and marshes for control of flies and mosquito larvae and may be used for spray treatment of barns, grain bins, mushroom houses, other agricultural premises, and garbage and sewage areas. (EPA 2000/2001 TRI Public Data Release Report)
Potential Hazards - This chemical is highly toxic; it may be fatal if inhaled, swallowed or absorbed through the skin.

Summary Analysis– Methoxychlor

- No PC quantity of methoxychlor was reported in 2003. In 2000 - 2002, only small quantities were reported, with 17 pounds the largest quantity reported in 2000. Only 3 facilities reported methoxychlor in 2000; one facility in 2001 and 2002.
- In 2000, the year in which the largest quantity of methoxychlor was reported, most of this chemical was treated.
- One facility in Region 7 (Kansas) reported a quantity of methoxychlor in each year, 2000-2002. Aside from this facility, 1 other facility in Region 7 (Missouri) and a facility in Region 8 (Colorado) also reported methoxychlor in 2000.
- Two of the 3 facilities that reported a PC quantity of methoxychlor in 2000-2003, were in SIC 2879 (Pesticides and agricultural chemicals, nec); the remaining facility was in SIC 2899 (Chemical preparations, nec).

National Trends – Methoxychlor. Exhibit 4.153 presents the total PC quantity (pounds) of methoxychlor in 1999 to 2003, showing the disposal, treatment, energy recovery, as well as recycling quantities. No quantity of methoxychlor was reported in 1999 or 2003. In 2000 -2002, only small quantities were reported, with 17 pounds the largest quantity reported in 2000. Only 3 facilities reported methoxychlor in 2000; one facility in 2001 and 2002. In 2000, most of the methoxychlor was treated.

Exhibit 4. 153. National-Level Information for Methoxychlor (1999-2003)

	1999	2000	2001	2002	2003	Percent Change (1999--2003)	Management Method -- Percent of Quantity of this Chemical in 2003
Number of Facilities	0	3	1	1	0	NA	
Disposal Quantity (lbs.)	0	2	0	1	0	NA	NA
Energy Recovery Quantity (lbs.)	0	0	0	0	0	NA	NA
Treatment Quantity (lbs.)	0	16	0	0	0	NA	NA
Priority Chemical Quantity (lbs.)	0	17	1	1	0	NA	
Recycling Quantity (lbs.)	0	0	0	0	0	NA	

EPA Region Trends- Methoxychlor. Exhibit 4.154 shows the quantity (pounds) of methoxychlor reported by facilities in 2 EPA Regions in 1999 to 2003. One facility in Region 7 reported a quantity of methoxychlor in each year, 2000-2002. Aside from this facility, 1 other facility in Region 7 and a facility in Region 8 reported methoxychlor in 2000. The increased reporting of methoxychlor in 2000 may have occurred due to the lower TRI reporting threshold for this chemical that became effective in 2000.

Exhibit 4. 154. Quantity of Methoxychlor Reported by EPA Regions (1999-2003)

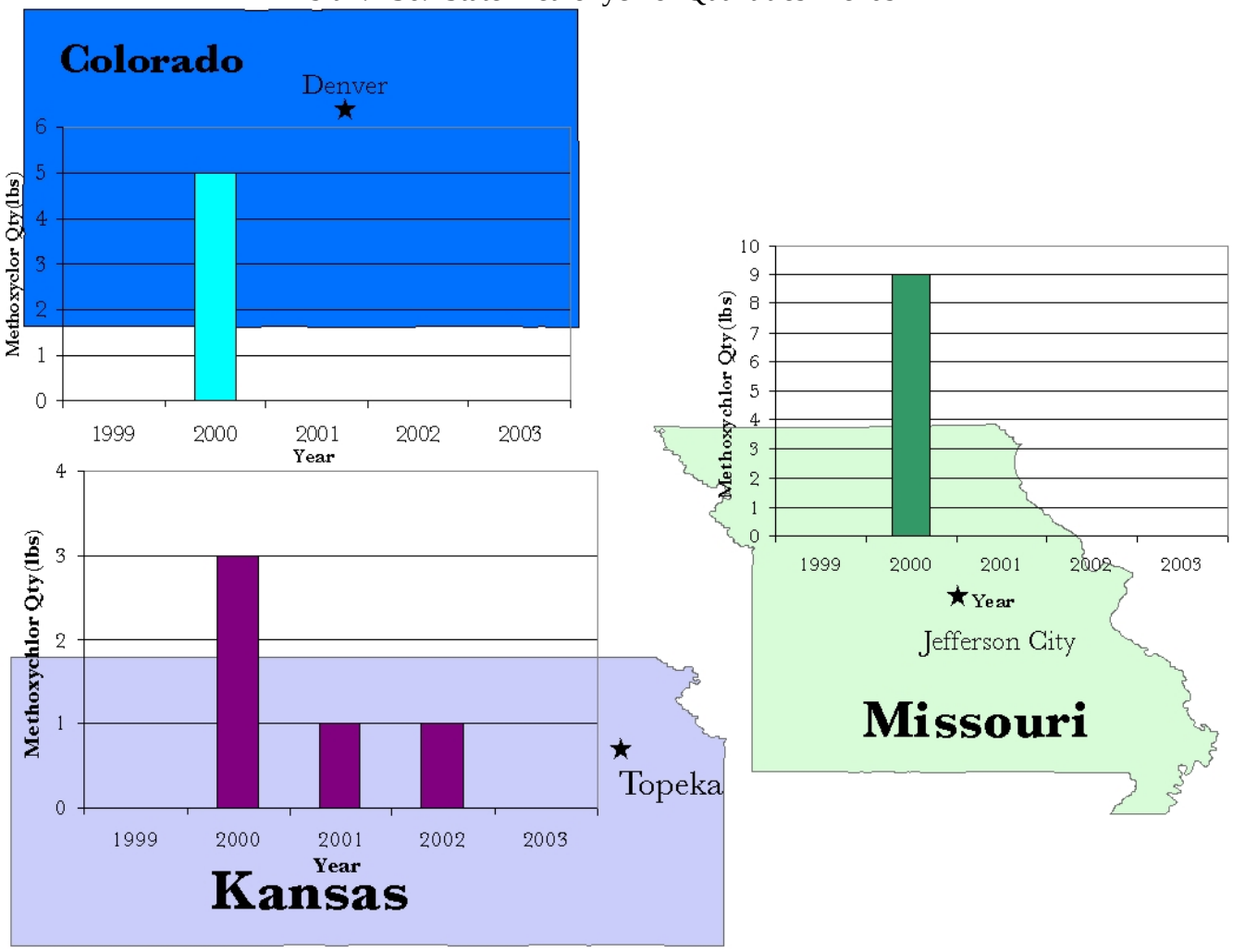
EPA Region	1999	2000	2001	2002	2003	Percent Change in Quantity (1999-2003)	Percent Of the Total Priority Chemical quantity (2003)
7	0	12	1	1	0	NA	NA
8	0	5	0	0	0	NA	NA
Total	0	17	1	1	0	NA	

State Trends- Methoxychlor. Since 1999, only 3 facilities reported methoxychlor -- one facility each in Colorado, Kansas, and Missouri (Exhibits 4.155 and 4.156). Only the Kansas facility reported methoxychlor in multiple years, 2000 -2002. None of the facilities reported methoxychlor in 2003.

Exhibit 4. 155. State-Level Information for Methoxychlor (1999-2003)

State	1999	2000	2001	2002	2003	Change in Quantity (1999-2003)	Percent Change in Quantity (1999-2003)	Percent of Total Quantity of this Priority Chemical (2003)
Colorado	0	5	0	0	0	0	NA	NA
Kansas	0	3	1	1	0	0	NA	NA
Missouri	0	9	0	0	0	0	NA	NA

Exhibit 4. 156. State Methoxychlor Quantities Trends



Industry Sector (SIC) Trends- Methoxychlor. Exhibit 4.157 shows the PC quantity (pounds) of methoxychlor reported by 3 facilities in 2000-2003, by industry sector. Two of the 3 facilities were in SIC 2879 (Pesticides and agricultural chemicals, nec). One facility was in SIC 2899 (Chemical preparations, nec).

Exhibit 4. 157. Industry Sector-Level Information for Methoxychlor (1999-2003)

Primary SIC Code	SIC Description	Number of Facilities for this SIC Code (2003)	1999	2000	2001	2002	2003	Change in Quantity (1999-2003)	Percent Change in Quantity (1999-2003)	Percent of Total Quantity of this Priority Chemical (2003)
2879	Pesticides and agricultural chemicals, nec	0	0	8	1	1	0	0	NA	NA